

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A bale shape monitor for a round baler having a bale-forming chamber, comprising:

a movable member located within the bale-forming chamber, wherein the movable member is adapted to move in response to growth of the bale within the bale-forming chamber;

B ~~a pair of~~ first and second spaced apart rollers rotatably mounted to the movable member, wherein the movable member is configured such that the rollers are arranged to engage the bale when the bale is uniform in diameter in the location of the rollers, such that the rollers rotate in response to rotation of the bale within the bale-forming chamber at a speed of rotation above a predetermined threshold, and wherein the movable member is configured such that the first roller is moved out of engagement with the bale when the bale is not uniform in diameter in the location of the rollers, wherein movement of the first roller out of engagement with the bale results in the first roller not rotating above the threshold speed of rotation; and

a sensor arrangement associated with the rollers, wherein the sensor arrangement is configured to sense rotation of the rollers above the threshold speed of rotation and to output a signal ~~in response to a sensed differential in the speed of rotation of the rollers~~ when the second roller is rotating above the threshold speed of rotation and the first roller is not rotating above the threshold speed of rotation due to movement of the first roller out of engagement with the bale, wherein the signal indicates a differential in the diameter of the bale in the vicinity of the rollers.

2. (Original) The bale shape monitor of claim 1, wherein the movable member comprises a laterally rigid frame which extends across the bale-forming chamber.

3. (Currently Amended) The bale shape monitor of claim 2, wherein the laterally rigid frame is configured to contact the bale at a location between the rollers.

4. (Original) The bale shape monitor of claim 3, wherein the laterally rigid frame carries a series of bale starting members which direct crop material during formation of the bale.

5. (Original) The bale shape monitor of claim 1, further comprising a steering indicator interconnected with the sensor arrangement for providing a sensory output to an operator of the round baler indicating the area of the bale having a lesser diameter.

6. (Currently Amended) A method of detecting a differential in bale diameter in a round bale as the round bale is formed in the bale-forming chamber of a round baler, comprising the steps of:

positioning a pair of rotatable members on a frame located within the bale-forming chamber, wherein the rotatable members are laterally spaced apart from each other and wherein the rotatable members are arranged to engage the bale to rotate in response to rotation of the bale within the bale-forming chamber, and to move radially outwardly along with the bale in response to growth of the bale within the bale-forming chamber, and wherein the frame is configured such that a differential in bale diameter in the locations of the rotatable members results in one of the rotatable members moving out of engagement with the bale;

forming a bale within the bale-forming chamber;

sensing rotation of the rotatable members during formation of the bale within the bale-forming chamber; and

outputting a signal in response to sensing rotation of the rotatable members when one of the rotatable members rotates at a speed of rotation above a predetermined threshold due to engagement with the bale, and the other of the rotatable members moves out of engagement with the bale and does not rotate above the threshold speed of rotation~~there is a differential in the speed of rotation of the rotatable members, wherein the differential in the speed of rotation of only one of the rotatable members above the threshold speed of rotation~~ indicates a differential in bale diameter during growth of the bale within the bale-forming chamber in the vicinity of the rotatable members.

7. (Currently Cancelled)

8. (Currently Amended) The method of claim 76, wherein the step of sensing rotation of the rotatable members during formation of the bale is carried out by interconnecting a rotation sensing arrangement between the ~~movable member~~ frame and each rotatable member.

9. (Currently Amended) The method of claim 76, wherein the ~~movable member~~ frame is configured to contact the bale at a location between the pair of rotatable members.

10. (Original) The method of claim 6, wherein the step of outputting a signal is carried out by outputting a sensory signal which provides an indicator to the operator of the round baler as to the side of the bale having a lesser diameter.

11. (Currently Amended) In a round baler having a bale-forming chamber and a movable member which moves radially outwardly along with the bale during formation of the bale within the bale-forming chamber, the improvement comprising ~~a pair of~~ first and second spaced apart rotatable members mounted to the movable member, wherein the ~~spaced apart~~ first and second rotatable members engage the bale and rotate at a speed of

rotation above a threshold speed of rotation in response to rotation of the bale when the bale diameter is substantially uniform, and wherein the first rotatable member is moved out of engagement with the bale by movement of the movable member when the diameter of the bale is less in the vicinity of the first rotatable member than in the vicinity of the second rotatable member, such that the first rotatable member does not rotate above the threshold speed of rotation and the second rotatable member rotates above the threshold speed of rotation, and a sensor arrangement associated with the first and second rotatable members for detecting rotation of the rotatable members, wherein the sensor arrangement is configured to detect ~~a differential in~~when the speed of rotation of the first rotatable members is below the threshold speed of rotation and the speed of rotation of the second rotatable member is above the threshold speed of rotation, ~~and wherein the presence of a differential in the speed of rotation of the rotatable members to~~ indicates a reduced diameter of the bale in the vicinity of ~~at least one of the~~ first rotatable members.

12. (Original) The improvement of claim 11, wherein the sensor arrangement comprises a switch mechanism interposed between the movable member and each rotatable member for detecting rotation of the rotatable members relative to the movable member.

13. (Original) The improvement of claim 11, wherein the sensor arrangement is operable to detect a differential in the frequency of rotation between the rotatable members.

14. (Currently Cancelled)

15. (Currently Amended) The improvement of claim ~~14~~13, wherein the movable member contacts the bale at a location between the rotatable members.

16. (Original) The improvement of claim 15, wherein the baler includes a series of belts, and wherein the rotatable members are arranged to contact the belts which

engage an outer surface defined by the bale during formation of the bale within the bale-forming chamber.

17. (Original) The improvement of claim 11, further comprising an indicator interconnected with the sensor arrangement for providing an indication as to a differential in bale diameter in the vicinity of the rotatable members.

18. (Currently Amended) The improvement of claim 17, wherein the indicator comprises a sensory output arrangement for outputting a signal to an operator of the round baler indicating a lesser diameter of the bale in the vicinity of ~~one of the~~ first rotatable members.

19. (Currently Amended) ~~The bale shape monitor of claim 1, further comprising~~ A bale shape monitor for a round baler having a bale-forming chamber, comprising:

a movable member located within the bale-forming chamber, wherein the movable member is adapted to move in response to growth of the bale within the bale-forming chamber;

a pair of spaced apart rollers rotatably mounted to the movable member, wherein the rollers are arranged to rotate in response to rotation of the bale within the bale-forming chamber;

a sensor arrangement associated with the rollers, wherein the sensor arrangement is configured to sense rotation of the rollers and to output a signal in response to a sensed differential in the speed of rotation of the rollers, wherein the signal indicates a differential in the diameter of the bale in the vicinity of the rollers; and

wherein the sensor arrangement includes a magnet received within a passage defined by each roller, wherein the magnet magnetically interacts ~~rotates~~ with the sensor arrangement upon rotation of the rollers ~~roller~~ to sense rotation of the rollers.